

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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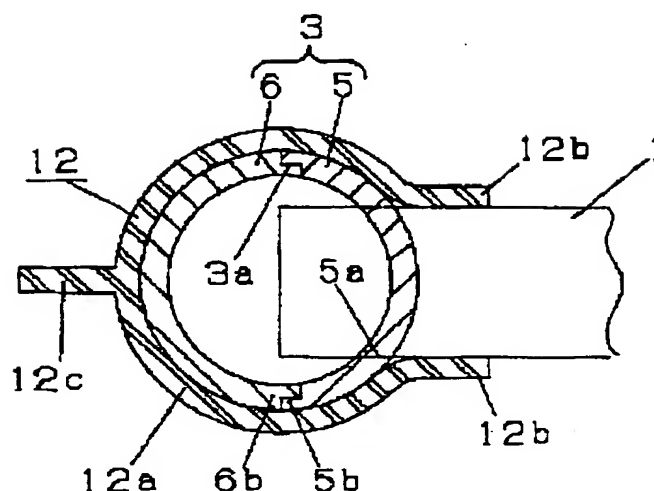
APPLICATION DATE : 02-08-91  
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APPLICANT : SHOWA ALUM CORP;

INVENTOR : TOKUTAKE TOSHINORI;

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TITLE : HEAT EXCHANGER



ABSTRACT : PURPOSE: To obtain a heat exchanger where the restriction of inserting length of tubes into a header can be easily carried out and a bracket is easily attached.

CONSTITUTION: A header 3 is divided into an inside half-split header part 5 with tube insertion holes 5a and an outside half-split header part 6 that corresponds to the inside half-split header part 5. Both half-split header parts 5 and 6 are arranged so as to face each other. A covering holder 12 with a bracket adaptor rib 12c on the outer circumferential face is mounted on the header 3 so that butt joints 3a of both half-split header parts 5 and 6 are covered with the covering holder 12. Or, a bracket adaptor rib projecting outward is provided on the outer half-split header part and a pair of holders are furnished to fix both sides of the inner half-split header part in mounted state.

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